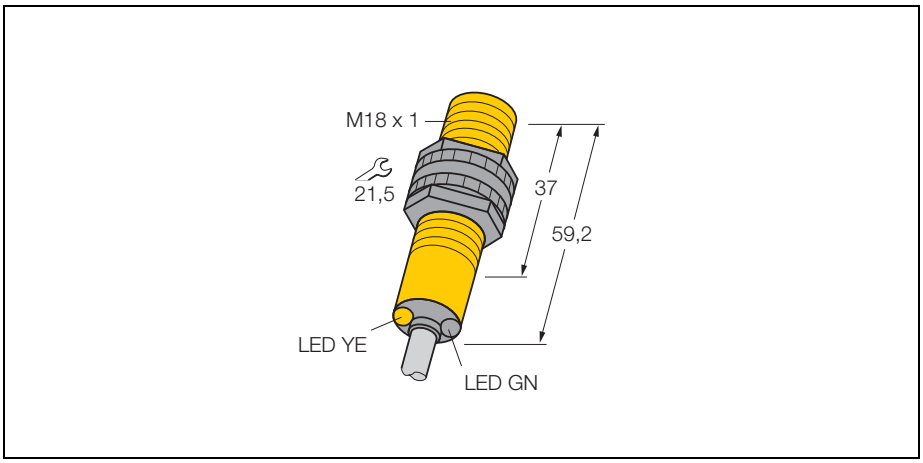
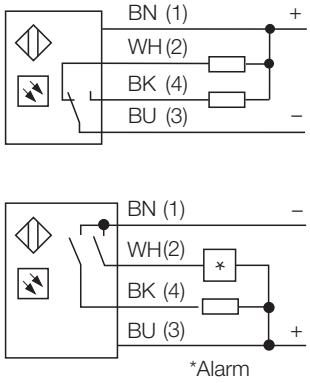
photoelectric sensor
retro-reflective sensor
S18SN6L



- **selectable light or dark operation or light operation with alarm function**
- **Connection cable, 2 m**
- **degree of protection IP68 - IP69K**
- **Operating voltage 10…0 VDC**
- **npn switching output**
- **degree of protection IP69K**

Type	S18SN6L
Ident-No.	3028556
Operating mode	retro-reflective sensor
Light type	IR
Wavelength	950 nm
Range	50… 2000 mm
Ambient temperature	-40…+ 70°C
Operating voltage	10… 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 25 mA
Output function	connection programmable, NPN
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 mA
Housing	cylindrical/threaded, S18
Dimensions	59.2mm
Housing diameter	Ø 18mm
Housing material	Plastic, PBT
Lens	plastic, acrylic
Electrical connection	cables
Cable length	2 m
Cable cross section:	4 x 0.5mm^2
Protection class	IP68 / IP69K
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing

Wiring diagram

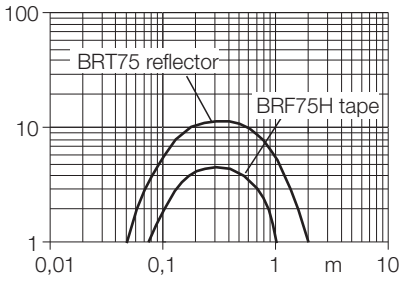


Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

Excess gain curve

Excess gain in relation to the distance



• Edition: • 11.09.2010